

SECTION 08125
INTERIOR ALUMINUM FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Aluminum door frames.
 - 2. Aluminum partition frames.
- B. Related Sections include the following:
 - 1. Division 8 Section "Flush Wood Doors."
 - 2. Division 8 Section "Aluminum Entrances and Storefront."
 - 3. Division 8 Section "Glazing."

1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each product specified.
- B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of components including hardware, glazing, and glazing stops. Show attachments to other Work.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed interior aluminum framing systems similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Manufacturer Qualifications: A firm experienced in manufacturing interior aluminum framing systems similar to those indicated for this Project and with a record of successful in-service performance.
- C. Source Limitations: Obtain aluminum frames through one source from a single manufacturer with the capacity and resources to provide products of consistent quality in appearance and physical properties.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver frames palletted, wrapped, or crated to provide protection during transit and job storage.
- B. Inspect frames on delivery for damage. Minor damages may be repaired provided refinished items match new work and are approved by Architect; otherwise, remove and replace damaged items as directed.
- C. Store frames at building site under cover and as near as possible to final installation location. Do not use covering material that will cause discoloration of aluminum finish.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install interior aluminum frames until spaces are enclosed and weatherproof; wet work in spaces is complete and dry; flooring, walls, ceilings, and work

above ceilings is complete; and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

- B. Field Measurements: Verify interior aluminum frame dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening and wall dimensions and note on Shop Drawings that these are not measured dimensions. Proceed with fabricating interior aluminum frames without field measurements. Coordinate wall, floor, and ceiling construction to ensure that actual opening dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Modulex, Inc.
 - 2. Raco Altura.
 - 3. Versatrac; a division of A. J. May, Inc.

2.2 MATERIALS

- A. Extruded Aluminum: ASTM B 221 alloy 6063-T5 or alloy and temper required to suit structural and finish requirements.

2.3 COMPONENTS

- A. General: Provide interior aluminum frame components that comply with dimensions, profiles, and relationships to adjoining work of components indicated on Drawings.
- B. Door Frames: Extruded aluminum, not less than 0.062 inch thick, reinforced for hinges and strikes.
- C. Glass Frames: Extruded aluminum, not less than 0.062 inch thick, designed for glass thickness indicated.
- D. Ceiling Tracks: Extruded aluminum, not less than 0.062 inch thick.
- E. Trim: Extruded aluminum, not less than 0.062 inch thick, removable snap-in glass stops and door stops without exposed fasteners.

2.4 ACCESSORIES

- A. Fasteners: Aluminum, nonmagnetic stainless-steel or other noncorrosive metal fasteners compatible with frames, stops, panels, reinforcement plates, hardware, anchors, and other items being fastened.
- B. Door Silencers (Mutes): Manufacturer's standard mohair or vinyl.
- C. Glazing Gaskets: Manufacturer's standard extruded or molded plastic, to accommodate 6-mm-thick glass.
- D. Glazing: As specified in Division 8 Section "Glazing."
- E. Hardware: As specified in Division 8 Section "Door Hardware."

2.5 FABRICATION

- A. Machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within frame with concealed screws.

- B. Provide concealed corner reinforcements and alignment clips for precise butt or mitered connections.
- C. Fabricate frames for glass to allow glass replacement without dismantling frame.
- D. Fabricate all components to allow secure installation without exposed fasteners.

2.6 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Class I, Clear Anodic Finish: AA-M12C22A41 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 607.1.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, floors, and ceilings for suitable conditions where interior aluminum frames are to be installed.
- B. Verify that wall thickness does not exceed standard tolerances allowed by throat size indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with frame manufacturer's written installation instructions and approved Shop Drawings.
- B. Install frames plumb and square, securely anchored to substrates with fasteners recommended by frame manufacturer.
- C. Install partition components in the longest possible lengths; components up to 48 inches long must be one piece. Fasten to suspended ceiling grid on maximum 48-inch centers, using sheet metal screws or other fasteners approved by frame manufacturer.
 - 1. Use concealed installation clips to ensure that splices and connections are tightly butted and properly aligned.
 - 2. Secure clips to main structural extrusion components and not to snap-in or trim members.
 - 3. Do not leave screws or other fasteners exposed to view when installation is complete.

3.3 CLEANING AND ADJUSTING

- A. Clean exposed frames promptly after installation, using cleaning methods recommended by frame manufacturer.
 - 1. Clean and maintain anodized aluminum according to AAMA 609.
- B. Touch up marred areas so touchup is not visible from a distance of 48 inches. Remove and replace frames with damaged finish that cannot be satisfactorily repaired.

3.4 PROTECTION

- A. Provide protection required to ensure that framing will be without damage or deterioration on Substantial Completion.

END OF SECTION 08125